

Patent Abstracts of Japan

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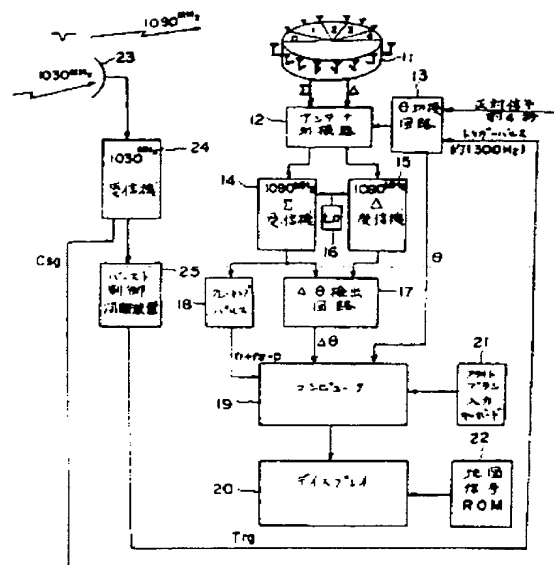
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TITLE : PASSIVE TYPE SSR APPARATUS



ABSTRACT : PURPOSE: To detect and display the direction and position of an aircraft by receiving and computing a response radio wave from the aircraft with respect to an interrogation radio wave transmitted from an interrogator at a specified SSR site.

CONSTITUTION: A CPU19 performs an arithmetic processing according to various input data. For example, a Σ signal responded from a receiver 14 is decoded to detect altitude information (mode C) or the status response (mode A) of an aircraft or to detect the direction $\theta_0 + \Delta\theta$ of the aircraft from the detection center angle θ_0 from a θ switching circuit 13 and an error angle $\Delta\theta$ from a $\Delta\theta$ detection circuit 17. A framing pulse from a framing pulse generation circuit 18 is counted to detect the propagation delay time of the Σ signal or based on the data, the distance r_2 to the target aircraft is calculated from the main machine. A display output signal is generated based on the input data and computation output data and outputted to a display 20.

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